Quantitative chemistry

Unscramble the phrases in the table to make the correct definitions for the key terms listed in column A (phrases can be used once, more than once, or not at all). Then write out the definitions in full, in the spaces provided below the table.

A	B	C	D	E
A limiting reactant	is the volume of	is the exact volume added	which therefore limits the amount of	the relative formula mass.
Excess reactant	is the relative mass of the atom(s) of	solution added from	the burette that is needed to	one mole of the substance.
Atom economy	is the unit of amount of substance, where	a percentage of the total mass	of the reactants, in	reactant has run out first.
Percentage composition	is not used up	in a chemical reaction,	molecules or formula units in	reach the end point.
The mole (mol)	is the number 6.02 x 10^{23}, which	in a chemical	reaction because another	atoms, molecules or formula units.
Avogadro's number	in a titration	is the number of atoms,	given as a percentage of	a balanced symbol equation.
The end point	is completely used up	one element in a compound,	6.02 x 10^{23} (Avogadro's number)	changes colour.
The titre	is the mass of the desired product given as	one mole is the amount containing the	when the indicator	products that can be formed.

A limiting reactant_____

_____

Excess reactant _____

1

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_____

Atom economy_____

_____

Percentage composition _____

_____

The mole (mol) _____

_____

Avogadro’s number _____

_____

The end point _____

_____

The titre
_____

_____

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Connection completion

Choose the letter from the table below which contains the correct row of connective words to complete these sentences:

In a titration, a neutralisation reaction occurs, and the end point is determined _____ a colour change in the indicator. The titre allows us to calculate the number of moles of the chemical in the burette which _____ enables us to calculate the number of moles in the solution of unknown concentration. If, _____, the end point is overshot, there will excess reactant remaining and the titre reading will be incorrect.

A	despite	thus	additionally
B	through	additionally	therefore
C	by	furthermore	despite this
D	as a result of	consequently	however

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